



STIC Search Report

EIC 1700

STIC Database Tracking Number: 182976

TO: Kallambella M Vijayakumar
Location: REM 9D70
Art Unit : 1751
March 23, 2006

Case Serial Number: 10/669403

From: Ross Shipe
Location: EIC 1700
REMSEN 4B31
Phone: 571/272-6018
Ross.Shipe@uspto.gov

Search Notes

Examiner Vijayakumar:

Please review the attached search results.

17 hits which goes from page 2 to the end.

If you have any questions or if you would like to refine the search query, please feel free to contact me at any time.

Thanks you for using EIC 1700 search services!

Ross Shipe (ASRC)
Technical Information Specialist

Access DB# 182576**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: Vijayakumar Examiner #: _____ Date: _____
Art Unit: _____ Phone Number 30 _____ Serial Number: 10/669,703
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: method for application - - - -

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>ROS</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>3/23/06</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>124</u>	Other _____	Other (specify) _____

Banks, Kendra

182976

From: KALLAMBELLA VIJAYAKUMAR [kallambella.vijayakumar@uspto.gov]
Sent: Wednesday, March 22, 2006 4:20 PM
To: STIC-EIC1700
Subject: Database Search Request, Serial Number: 10/669,403

Requester:
KALLAMBELLA VIJAYAKUMAR (P/1751)
Art Unit:
GROUP ART UNIT 1751
Employee Number:
79358
Office Location:
REM 09D70
Phone Number:
(571)272-1324
Mailbox Number:

Case serial number:
10/669,403
Class / Subclass(es):
252/301.16, 299.61; 568/610, 630, 649, 664
Earliest Priority Filing Date:
09/24/2003
Format preferred for results:
Paper
Search Topic Information:
Claims 22-23
Special Instructions and Other Comments:

SCIENTIFIC REFERENCE BR
Sci & Tech Inf. Ctr.
MAR 23 REC'D
Pat. & T.M. Office



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

BIBDATASHEET

Bib Data Sheet

CONFIRMATION NO. 5058

SERIAL NUMBER 10/669,403	FILING DATE 09/24/2003 RULE	CLASS 252	GROUP ART UNIT 1751	ATTORNEY DOCKET NO. UC0315 US NA
-----------------------------	---------------------------------------	--------------	------------------------	-------------------------------------

APPLICANTS

Viacheslav A. Petrov, Hockessin, DE;

Daniel David Lecloux, Buellton, CA;

** CONTINUING DATA ***** *me*** FOREIGN APPLICATIONS ***** *me*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
 ** 12/17/2003

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY DE	SHEETS DRAWING 1	TOTAL CLAIMS 21	INDEPENDENT CLAIMS 6
35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance	Verified and Acknowledged Examiner's Signature <i>[Signature]</i> Initials			

ADDRESS

23906
 E I DU PONT DE NEMOURS AND COMPANY
 LEGAL PATENT RECORDS CENTER
 BARLEY MILL PLAZA 25/1128
 4417 LANCASTER PIKE
 WILMINGTON, DE
 19805

TITLE

Method for the application of active materials onto active surfaces and devices made with such methods

FILING FEE RECEIVED 1502	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit
------------------------------------	---	---

TITLE

METHOD FOR THE APPLICATION OF ACTIVE MATERIALS ONTO
ACTIVE SURFACES AND DEVICES MADE WITH SUCH METHODS

ABSTRACT OF THE INVENTION

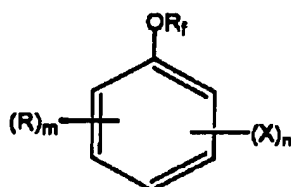
- 5 The invention provides methods for the application of active materials onto active surfaces useful in organic electronic devices. The methods of the invention include selecting a liquid composition including an active material and a suitable liquid medium whereby when the liquid composition is deposited on the desired active surface it has no greater
- 10 than about a 40° contact angle; treating the active surface to raise its surface tension before the deposition of a liquid composition containing the desired active material is deposited thereon; and combination thereof. The invention also provides organic electronic devices having at least two active layers, wherein at least one active layer comprises an active
- 15 material that was deposited using at least one practice of the method of the invention.

Application No.: 10/669403
Docket No.: UC0315USNA

Page 2

Amendments to Claims

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Previously Presented) A composition for depositing an active material onto a surface, said composition comprising:
 - the active material; and
 - at least one material selected from compounds having the structure



wherein:

- R is C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, or C₁-C₁₀ oxyalkyl,
- R_f is C₂-C₃ fluorinated alkyl, C₁-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₁-C₁₀ fluorinated oxyalkenyl,
- X is H, F, Cl, Br, C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy C₁-C₁₀ oxyalkyl, C₁-C₁₀ fluorinated alkyl, C₁-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₁-C₁₀ fluorinated oxyalkenyl,
- m is from 0-5, and
- n is from 0-5, wherein m + n is no greater than 5.

Application No.: 10/669403
Docket No.: UC0315USNA

Page 3

16. (Cancelled)

17. (Cancelled)

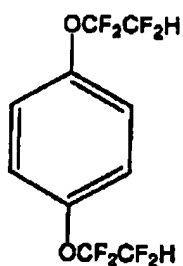
18. (Cancelled)

19. (Cancelled)

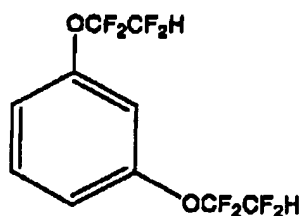
20. (Cancelled)

21. (Cancelled)

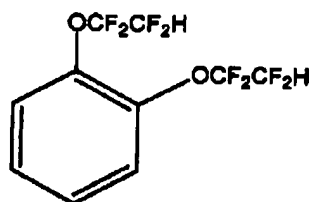
22. (Previously Presented) A composition for depositing an active material onto a surface, said composition comprising:
the active material; and
at least one compound selected from compounds A through O and mixtures thereof:



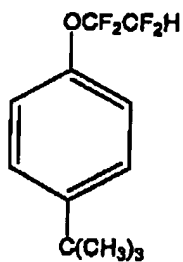
A



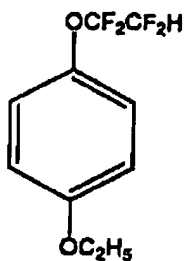
B



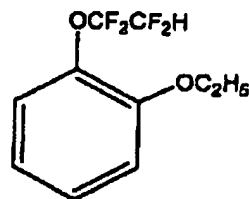
C



D



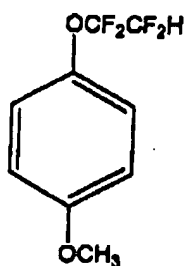
E



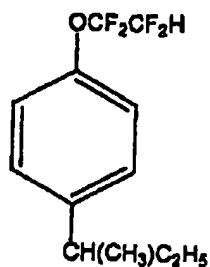
F

Application No.: 10/669403
 Docket No.: UC0315USNA

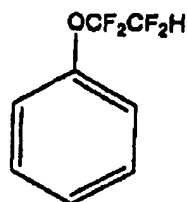
Page 4



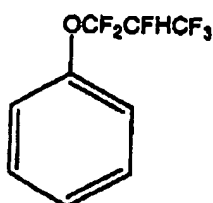
I



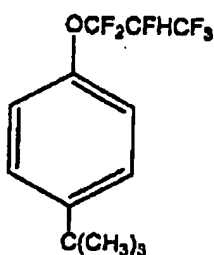
K



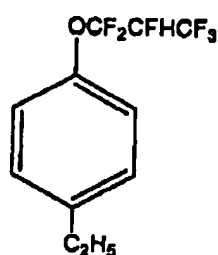
L



M



N

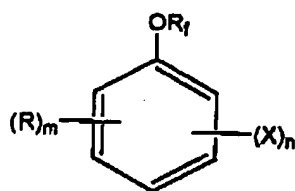


O

23. (New) A composition for depositing an active material onto a surface, said composition comprising:

the active material; and

at least one material selected from compounds having the structure



wherein:

R is C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy, or C₁-C₁₀ oxyalkyl,

R_f is C₂-C₃ fluorinated alkyl, C₁-C₁₀ fluorinated alkenyl, C₁-C₁₀ fluorinated oxyalkyl, or C₁-C₁₀ fluorinated oxyalkenyl,

Application No.: 10/669403
Docket No.: UC0315USNA

Page 5

X is H, F, Cl, Br, C₁-C₁₀ alkyl, C₁-C₁₀ alkoxy C₁-C₁₀ oxyalkyl, C₁-C₁₀ fluorinated alkyl, or C₁-C₁₀ fluorinated oxyalkyl,
m is from 0-5, and
n is from 0-5, wherein m + n is no greater than 5.



STIC Search Results Feedback Form

EIC17000

Questions about the scope or the results of the search? Contact *the EIC searcher* or contact:

Kathleen Fuller, EIC 1700 Team Leader
571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form

- I am an examiner in Workgroup: Example: 1713
- Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

- Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to EIC1700 REMSEN 4B28

=> d his full

(FILE 'HOME' ENTERED AT 09:44:08 ON 23 MAR 2006)

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2006

L6 STRUCTURE
L10 SCR 1839
L12 50 SEA SSS SAM L6 NOT L10
L13 11783 SEA SSS FUL L6 NOT L10
SAV L13 VIJ403/A
L16 STRUCTURE

FILE 'REGISTRY' ENTERED AT 11:02:19 ON 23 MAR 2006

L17 50 SEA SUB=L13 SSS SAM L16
D L17 QUE STAT
L18 2231 SEA SUB=L13 SSS FUL L16
SAV L18 VIJ403A/A

FILE 'HCAPLUS' ENTERED AT 11:27:11 ON 23 MAR 2006

L19 846 SEA ABB=ON PLU=ON L18
L20 509121 SEA ABB=ON PLU=ON EL OR E (W) L OR OLED OR LED OR
LIGHT (W) EMITT? OR SEMICONDUCTOR (W) DEVICE#
L21 9 SEA ABB=ON PLU=ON L19 AND L20
L22 9 SEA ABB=ON PLU=ON L19 AND ELECTRIC PHENOMENA/SC,SX
L23 17 SEA ABB=ON PLU=ON L21 OR L22

=> file reg

FILE 'REGISTRY' ENTERED AT 11:47:30 ON 23 MAR 2006

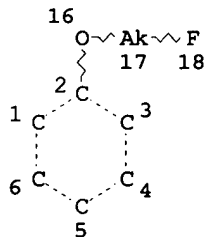
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2006 American Chemical Society (ACS)

=> d l23 que stat

L6 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 2

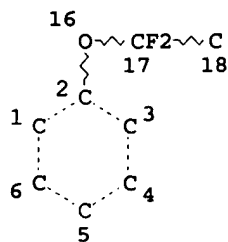
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L10 SCR 1839

L13 11783 SEA FILE=REGISTRY SSS FUL L6 NOT L10

L16 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC 2
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
 L18 2231 SEA FILE=REGISTRY SUB=L13 SSS FUL L16
 L19 846 SEA FILE=HCAPLUS ABB=ON PLU=ON L18
 L20 509121 SEA FILE=HCAPLUS ABB=ON PLU=ON EL OR E (W) L OR OLED
 OR LED OR LIGHT (W) EMITT? OR SEMICONDUCTOR (W) DEVICE#
 L21 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L20
 L22 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND ELECTRIC
 PHENOMENA/SC,SX
 L23 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 OR L22

=> file hcaplus
 FILE 'HCAPLUS' ENTERED AT 11:47:49 ON 23 MAR 2006
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l23 1-17 ibib abs hitstr hitind

L23 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:431449 HCAPLUS
 DOCUMENT NUMBER: 142:464464
 TITLE: Siloxanes containing trifluorovinyl ether group
 and sol-gel hybrid polymers prepared by using
 the same
 INVENTOR(S): Lee, Jae-Suk; Lee, Kwan-Soo; Song, Ho-Suk; Kim,
 Jae-Pil
 PATENT ASSIGNEE(S): S. Korea
 SOURCE: U.S. Pat. Appl. Publ., 22 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107561	A1	20050519	US 2004-881557	20040630

JP 2005146257

A2

20050609

JP 2004-210382

200407
16

PRIORITY APPLN. INFO.:

KR 2003-81489

A

200311
18

OTHER SOURCE(S): MARPAT 142:464464

AB The invention relates to a siloxane monomer contg. a trifluorovinyl ether group and a sol-gel hybrid polymer prepd. using the monomer, more particularly to siloxane monomer with novel structure prepd. by reacting alkoxychlorosilane with a Grignard reagent contg. a trifluorovinyl ether (-OC₂F₃) group, a method of prepg. the same and a sol-gel hybrid polymer contg. a perfluorocyclobutane (PFCB) group prepd. from sol-gel reaction using said siloxane monomer contg. a trifluorovinyl ether group. This hybrid polymer exhibits low birefringence and high silicon-wafer adhesivity and heat resistance. A typical hybrid polymer was manufd. by reaction of 1 mol [3-(trifluorovinyloxy)phenyl]triethoxysilane with 9 mol 3-(triethoxysilyl)propyl methacrylate in water and HCl, radical polymn. of the resulting sol-gel-prepd. monomer in the presence of 2,2-dimethyl-2-phenylacetophenone, and heating at 160°.

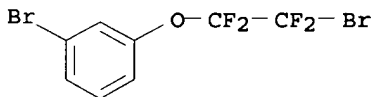
IT 272124-01-3P, 3-(2-Bromotetrafluoroethoxy)-1-bromobenzene

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer precursor; siloxanes contg. trifluorovinyl ether group for sol-gel hybrid polymers contg. perfluorocyclobutyl crosslinking groups with low birefringence and high adhesivity and heat resistance)

RN 272124-01-3 HCAPLUS

CN Benzene, 1-bromo-3-(2-bromo-1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



IC ICM C08G077-24

INCL 528042000; 528012000

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 76

IT 260262-38-2P, 1-Bromo-3-(trifluorovinyloxy)benzene

272124-01-3P, 3-(2-Bromotetrafluoroethoxy)-1-bromobenzene

RL: IMF (Industrial manufacture); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)

(monomer precursor; siloxanes contg. trifluorovinyl ether group for sol-gel hybrid polymers contg. perfluorocyclobutyl crosslinking groups with low birefringence and high adhesivity and heat resistance)

L23 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:268380 HCAPLUS

DOCUMENT NUMBER: 143:247987

TITLE: Influence of homoallylic fluorine atoms on the regioselectivity of the Wacker reaction

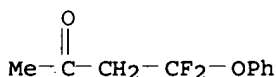
AUTHOR(S): Guidotti, J.; Tordeux, M.; Blazejewski, J.-C.; Wakselman, C.

CORPORATE SOURCE: SIRCOB, UMR CNRS 8086, Universite de Versailles, Versailles, 78035, Fr.

SOURCE: Letters in Organic Chemistry (2005), 2(2),
148-150
CODEN: LOCEC7; ISSN: 1570-1786
PUBLISHER: Bentham Science Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Wacker oxidn. reaction of terminal olefins bearing one or two
fluorine atoms at a homoallylic position led to a ratio
aldehyde/methyl ketone much higher than that obsd. with their
nonfluorinated analogs. This regioselectivity can be ascribed to a
specific interaction between fluorine atoms and palladium, or to a
peculiar influence of the halogens on the double bond.
IT 863506-02-9P
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); PROC (Process); RACT (Reactant or reagent)
(effect of homoallylic fluorine atoms on regioselectivity of the
Wacker reaction)
RN 863506-02-9 HCAPLUS
CN Benzene, [(1,1-difluoro-3-butenyl)oxy]- (9CI) (CA INDEX NAME)



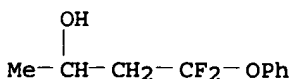
IT 863506-05-2P 863506-08-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(effect of homoallylic fluorine atoms on regioselectivity of the
Wacker reaction)
RN 863506-05-2 HCAPLUS
CN 2-Butanone, 4,4-difluoro-4-phenoxy- (9CI) (CA INDEX NAME)



RN 863506-08-5 HCAPLUS
CN Butanal, 4,4-difluoro-4-phenoxy- (9CI) (CA INDEX NAME)



IT 863506-12-1P 863506-13-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(effect of homoallylic fluorine atoms on regioselectivity of the
Wacker reaction)
RN 863506-12-1 HCAPLUS
CN 2-Butanol, 4,4-difluoro-4-phenoxy- (9CI) (CA INDEX NAME)



RN 863506-13-2 HCAPLUS
CN 1-Butanol, 4,4-difluoro-4-phenoxy- (9CI) (CA INDEX NAME)

HO-(CH₂)₃-CF₂-OPh

CC 22-7 (Physical Organic Chemistry)
 IT 140135-77-9P 863506-02-9P
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
 (effect of homoallylic fluorine atoms on regioselectivity of the Wacker reaction)
 IT 863506-04-1P 863506-05-2P 863506-07-4P 863506-08-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (effect of homoallylic fluorine atoms on regioselectivity of the Wacker reaction)
 IT 2550-26-7P 18328-11-5P, Benzenebutanal 19790-62-6P 22409-85-4P 863506-06-3P 863506-09-6P 863506-10-9P 863506-11-0P 863506-12-1P 863506-13-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (effect of homoallylic fluorine atoms on regioselectivity of the Wacker reaction)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:259200 HCAPLUS

DOCUMENT NUMBER: 142:327506

TITLE: Method for the application of active materials onto active surfaces and devices made with such methods

INVENTOR(S): Petrov, Viacheslav A.; Lecloux, Daniel David

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005062021	A1	20050324	US 2003-669403	20030924
WO 2005031889	A2	20050407	WO 2004-US31246	20040922
WO 2005031889	A3	20050623		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,			

opp/kant

PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
 GW, ML, MR, NE, SN, TD, TG
 US 2005269550 A1 20051208 US 2005-154925

200506

16

PRIORITY APPLN. INFO.:

US 2003-669403

A

200309

24

OTHER SOURCE(S): MARPAT 142:327506

AB The invention provides methods for the application of active materials onto active surfaces useful in org. electronic devices. The methods of the invention include selecting a liq. compn. including an active material and a suitable liq. medium whereby when the liq. compn. is deposited on the desired active surface it has no greater than about a 40° contact angle; treating the active surface to raise its surface tension before the deposition of a liq. compn. contg. the desired active material is deposited thereon; and combination thereof. The invention also provides org. electronic devices having at least two active layers, wherein at least one active layer comprises an active material that was deposited using at least one practice of the method of the invention.

IT 3832-65-3 3914-19-0 4063-48-3

847991-51-9 847991-52-0 847991-53-1

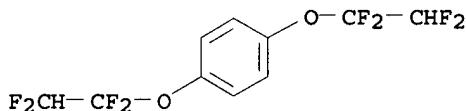
847991-54-2 847991-55-3 848365-56-0

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(method for application of active materials onto active surfaces and org. devices made with such methods)

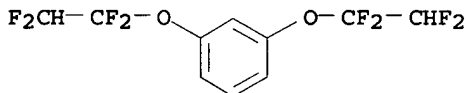
RN 3832-65-3 HCAPLUS

CN Benzene, 1,4-bis(1,1,2,2-tetrafluoroethoxy)- (8CI, 9CI) (CA INDEX NAME)



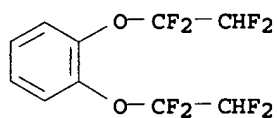
RN 3914-19-0 HCAPLUS

CN Benzene, 1,3-bis(1,1,2,2-tetrafluoroethoxy)- (8CI, 9CI) (CA INDEX NAME)

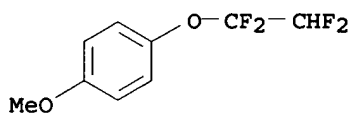


RN 4063-48-3 HCAPLUS

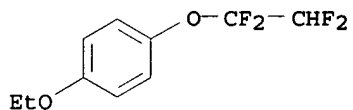
CN Benzene, 1,2-bis(1,1,2,2-tetrafluoroethoxy)- (8CI, 9CI) (CA INDEX NAME)



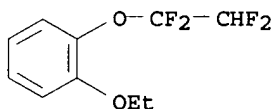
RN 847991-51-9 HCAPLUS
 CN Benzene, 1-methoxy-4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



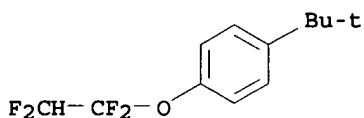
RN 847991-52-0 HCAPLUS
 CN Benzene, 1-ethoxy-4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



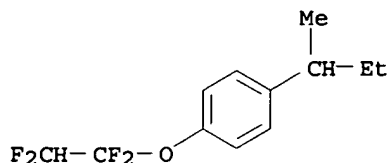
RN 847991-53-1 HCAPLUS
 CN Benzene, 1-ethoxy-2-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



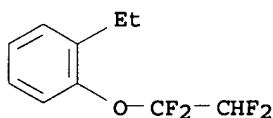
RN 847991-54-2 HCAPLUS
 CN Benzene, 1-(1,1-dimethylethyl)-4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



RN 847991-55-3 HCAPLUS
 CN Benzene, 1-(1-methylpropyl)-4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



RN 848365-56-0 HCAPLUS
 CN Benzene, 1-ethyl-2-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



IC ICM B32B009-04
 ICS H01B001-00
 INCL 252500000
 CC 76-3 (Electric Phenomena)
 Section cross-reference(s): 38, 48, 74
 IT Adhesive films
 Coating process
 Conducting polymers
 Electric corona
 Etching
 Glass substrates
 Ink-jet printing
 Ion bombardment
 Laser ablation
 Photolysis
 Plasma
 Reduction, electrochemical
 Screen printing
 Semiconductor device fabrication
 Semiconductor devices
 (method for application of active materials onto active surfaces and org. devices made with such methods)
 IT 98-08-8, Trifluoromethylbenzene 402-31-3, 1,3-Bis(trifluoromethyl)benzene 1077-16-3, 1-Phenylhexane 3832-65-3 3914-19-0 4063-48-3
 50926-11-9, Indium tin oxide 847991-51-9
 847991-52-0 847991-53-1 847991-54-2
 847991-55-3 848365-56-0
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (method for application of active materials onto active surfaces and org. devices made with such methods)

L23 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:835817 HCAPLUS

DOCUMENT NUMBER: 142:23584

TITLE: Synthesis of functional polymers-vinylidene fluoride based fluorinated copolymers and terpolymers bearing bromoaromatic side-group

AUTHOR(S): Souzy, R.; Ameduri, B.; Boutevin, B.

CORPORATE SOURCE: Laboratory of Macromolecular Chemistry, UMR (CNRS) 5076, Ecole Nationale Supérieure de Chimie de Montpellier, Montpellier, 34296/05, Fr.

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (2004), 42(20), 5077-5097
CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

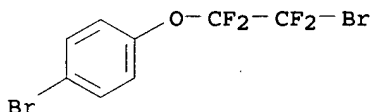
LANGUAGE: English

AB The radical co- and terpolymn. of 4-[(α,β,β -trifluorovinyl)oxy]bromo benzene (TFVOBB) with 1,1-difluoroethylene (or vinylidene fluoride, VDF, or VF₂), hexafluoropropene (HFP), perfluoromethyl vinyl ether (PMVE), and chlorotrifluoroethylene (CTFE) is presented. Although TFVOBB could be thermocyclodimerized, it could not homopolymerize under radical initiation. TFVOBB could be copolymd. in soln. under a radical initiator with VDF or CTFE comonomers, while its copolymn. with HFP or PMVE were unsuccessful. The terpolymn. of TFVOBB with VDF and HFP, or VDF and PMVE, or VDF and CTFE also led to original fluorinated terpolymers bearing bromoarom. side-groups. The conditions of co- and terpolymn. were optimized in terms of the nature of the radical initiators, and of the nature of solvents (fluorinated or nonhalogenated). Various monomer concns. in the co- and terpolymers were assessed by ¹⁹F and ¹H-NMR spectroscopy. The thermal and physico chem. properties were also studied.

IT 113939-45-0P, 4-(2-Bromotetrafluoroethoxy)bromobenzene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer synthesis; synthesis of functional polymers-vinylidene fluoride based fluorinated copolymers and terpolymers bearing bromoarom. side-group)

RN 113939-45-0 HCAPLUS

CN Benzene, 1-bromo-4-(2-bromo-1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



CC 35-4 (Chemistry of Synthetic High Polymers)

IT 113939-45-0P, 4-(2-Bromotetrafluoroethoxy)bromobenzene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer synthesis; synthesis of functional polymers-vinylidene fluoride based fluorinated copolymers and terpolymers bearing bromoarom. side-group)

REFERENCE COUNT: 114 THERE ARE 114 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

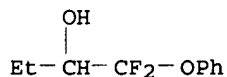
L23 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:687171 HCAPLUS

DOCUMENT NUMBER: 141:350213

TITLE: Preparation of (phenyldifluoromethyl)- and (phenoxydifluoromethyl)-silanes by magnesium-promoted carbon-chlorine bond activation

AUTHOR(S): Guidotti, Jerome; Metz, Francois; Tordeux, Marc;
Wakselman, Claude
CORPORATE SOURCE: SIRCOB-CNRS, Batiment Lavoisier, Universite de
Versailles, Versailles, 78035, Fr.
SOURCE: Synlett (2004), (10), 1759-1762
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:350213
AB Treatment of α -chloro- α,α -difluorotoluene and
 α -chloro- α,α -difluoroanisole with
chlorotrimethylsilane in the presence of Mg in DMF led to
their corresponding trimethylsilyl derivs. These compds. are able
to transfer their fluorinated group to various electrophilic
substrates (carbonyl compds., disulfides, Ph isocyanate). E.g.,
addn. reaction of KF and 2-furylcarboxaldehyde to a DMF soln. were
followed by PhCF₂SiMe₃ reagent to give 93% yield of
PhCF₂CHOH-2-furan.
IT 774539-43-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of propanal with (phenoxydifluoromethyl)silane
difluoroalkylating reagent to give (phenoxydifluoromethyl)propano
1)
RN 774539-43-4 HCAPLUS
CN 2-Butanol, 1,1-difluoro-1-phenoxy- (9CI) (CA INDEX NAME)



CC 29-6 (Organometallic and Organometalloidal Compounds)
IT 774539-43-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of propanal with (phenoxydifluoromethyl)silane
difluoroalkylating reagent to give (phenoxydifluoromethyl)propano
1)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L23 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:272004 HCAPLUS
DOCUMENT NUMBER: 140:311881
TITLE: Dry imaging material containing organic
electrically conductive polymer antistatic agent
INVENTOR(S): Hanyu, Takeshi
PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004101881	A2	20040402	JP 2002-263866	200209

PRIORITY APPLN. INFO.:

JP 2002-263866

10

200209

10

OTHER SOURCE(S): MARPAT 140:311881

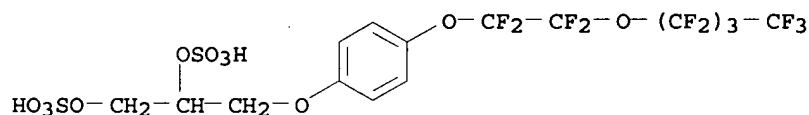
AB The dry imaging material comprises a photosensitive Ag halide grain, an org. Ag salt, a reducing agent, and a binder, ≥ 1 of layers of the dry imaging material contains an org. elec. conductive polymer doped with a dopant represented by $[Rf-(L1)m]p-Y-[(L2)n-A]q$ (Rf = F-substituted hydrocarbon chain; $L1,2$ = divalent bonding group; Y = tri- or tetravalent bonding group; A = anion, base thereof; $m, n = 0, 1$; p = integer 1-3; and $q = 2, 3$).

IT 676473-69-1

RL: MOA (Modifier or additive use); USES (Uses)
(dopant; dry imaging material contg. org. elec. conductive polymer antistatic agent)

RN 676473-69-1 HCAPLUS

CN 1,2-Propanediol, 3-[4-[1,1,2,2-tetrafluoro-2-(nonafluorobutoxy)ethoxy]phenoxy]-, bis(hydrogen sulfate), dilithium salt (9CI) (CA INDEX NAME)



●2 Li

IC ICM G03C001-76

ICS G03C001-498

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38, 76

IT 647859-72-1 676473-53-3 676473-56-6 676473-60-2 676473-68-0

676473-69-1 676473-71-5 676473-72-6 676473-74-8

676473-76-0 676473-78-2 676473-79-3 676473-80-6 676473-82-8

676473-83-9

RL: MOA (Modifier or additive use); USES (Uses)
(dopant; dry imaging material contg. org. elec. conductive polymer antistatic agent)

L23 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:331231 HCAPLUS

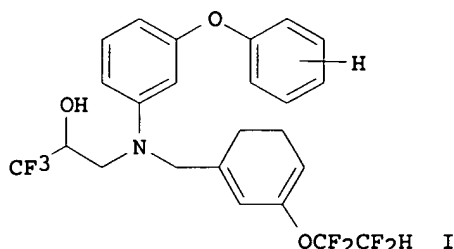
DOCUMENT NUMBER: 139:62615

TITLE: Discovery of a Simple Picomolar Inhibitor of
Cholesteryl Ester Transfer Protein

AUTHOR(S): Reinhard, Emily J.; Wang, Jane L.; Durley,
Richard C.; Fobian, Yvette M.; Grapperhaus,
Margaret L.; Hickory, Brian S.; Massa, Mark A.;
Norton, Monica B.; Promo, Michele A.; Tollefson,
Michael B.; Vernier, William F.; Connolly,
Daniel T.; Witherbee, Bryan J.; Melton, Michele
A.; Regina, Karen J.; Smith, Mark E.; Sikorski,
James A.

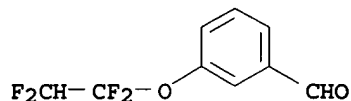
CORPORATE SOURCE: Pharmacia Discovery Research, Chesterfield, MO,
63017-1732, USA

SOURCE: Journal of Medicinal Chemistry (2003), 46(11),
2152-2168
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:62615
GI



AB A novel series of substituted N-[3-(1,1,2,2-tetrafluoroethoxy)benzyl]-N-(3-phenoxyphenyl)-trifluoro-3-amino-2-propanols is described which potently and reversibly inhibit cholesteryl ester transfer protein (CETP). Starting from the initial lead I, various substituents were introduced into the 3-phenoxyaniline group to optimize the relative activity for inhibition of the CETP-mediated transfer of [3H]-cholesteryl ester from HDL donor particles to LDL acceptor particles either in buffer or in human serum. The better inhibitors in the buffer assay clustered among compds. in which the phenoxy group was substituted at the 3, 4, or 5 positions. In general, small lipophilic alkyl, haloalkyl, haloalkoxy, and halogen moieties increased potency relative to I, while analogs contg. electron-donating or hydrogen bond accepting groups exhibited lower potency. Compds. with polar or strong electron-withdrawing groups also displayed lower potency. Replacement of the phenoxy ring in I with either simple aliph. or cycloalkyl ethers as well as basic heteroaryloxy groups led to reduced potency. From the better compds., a representative series was prepd. as the chirally pure R(+) enantiomers, and from these, the 4-chloro-3-ethylphenoxy analog was identified as a potent inhibitor of CETP activity in buffer (IC₅₀ 0.77 nM, 59 nM in human serum). The simple R(+) enantiomer represents the most potent acyclic CETP inhibitor reported. The chiral synthesis and biochem. characterization of the 4-chloro-3-ethylphenoxy analog are reported along with its preliminary pharmacol. assessment in animals.

IT 35295-35-3, 3-(1,1,2,2-Tetrafluoroethoxy)benzaldehyde
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of trifluoro(amino)propanols as inhibitors of cholesteryl ester transfer protein in relation to structure and effect on lipoprotein cholesterol)
RN 35295-35-3 HCAPLUS
CN Benzaldehyde, 3-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



CC 1-3 (Pharmacology)

Section cross-reference(s): 13, 25

IT 51-28-5, Dnp, reactions 59-50-7 75-26-3 95-57-8 95-65-8
 95-77-2 98-17-9 99-65-0, 1,3-Dinitrobenzene 99-89-8 100-00-5
 101-53-1 106-44-5, p-Cresol, reactions 106-48-9 107-06-2,
 1,2-Dichloroethane, reactions 108-39-4, reactions 108-68-9
 108-85-0 109-04-6 123-30-8 123-31-9, 1,4-Benzenediol,
 reactions 137-43-9 150-19-6 359-41-1, 1,1,1-Trifluoro-2,3-
 epoxypropane 371-41-5 372-20-3 378-77-8 402-23-3 402-45-9
 402-49-3 452-70-0 576-24-9 577-19-5, 1-Bromo-2-nitrobenzene
 580-51-8, [1,1'-Biphenyl]-3-ol 585-34-2 591-27-5, 3-Aminophenol
 618-45-1, 3-Isopropylphenol 619-60-3 620-17-7, 3-Ethylphenol
 625-95-6, 3-Iodotoluene 626-55-1 637-89-8 645-56-7 698-71-5
 827-99-6, 3-Trifluoromethoxyphenol 828-27-3 1125-78-6
 2550-36-9, Bromomethylcyclohexane 2713-34-0 3228-02-2
 6418-38-8 14143-32-9, 4-Chloro-3-ethylphenol 18979-50-5
 35295-35-3, 3-(1,1,2,2-Tetrafluoroethoxy)benzaldehyde
 52771-21-8, 3-(Trifluoromethoxy)benzaldehyde 64182-61-2
 69739-34-0, tert-Butyldimethylsilyl trifluoromethanesulfonate
 89763-93-9, 2-Fluoro-4-trifluoromethylbenzaldehyde 143142-90-9,
 (R)-1,1,1-Trifluoro-2,3-epoxypropane 146137-78-2,
 2-Fluoro-5-trifluoromethylbenzaldehyde 159689-88-0,
 3-Trifluoromethoxybenzyl bromide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of trifluoro(amino)propanols as inhibitors of cholesteryl
 ester transfer protein in relation to structure and effect on
 lipoprotein cholesterol)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L23 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:831305 HCAPLUS

DOCUMENT NUMBER: 138:187270

TITLE: Reactivity study of 1,1,2,4,4,5,7,7,8,8,9,9,9-
 tridecafluoro-5-trifluoromethyl-3,6-dioxanon-1-
 ene in nucleophilic reactions: fluorination
 properties of secondary amine adducts

AUTHOR(S): Dlouha, Ivona; Kvicala, Jaroslav; Paleta,
 Oldrich

CORPORATE SOURCE: Department of Organic Chemistry, Prague
 Institute of Chemical Technology, Prague, 16628,
 Czech Rep.

SOURCE: Journal of Fluorine Chemistry (2002), 117(2),
 149-159

CODEN: JFLCAR; ISSN: 0022-1139

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:187270

AB A series of nucleophiles was reacted with 1,1,2,4,4,5,7,7,8,8,9,9,9-
 tridecafluoro-5-trifluoromethyl-3,6-dioxanon-1-ene (1) as a
 representative of perfluoro(alkyl vinyl ethers). All reactions were
 completely regioselective with the nucleophilic attack at the
 terminal carbon atom. Reactions of hydroxy compds., thiols and

sec-amines afforded addn. products, but butyllithium, tributylphosphane or complex hydrides caused displacement of vinylic fluorine: butyllithium afforded cis-deriv., while reactions with hydrides and the phosphane led to mixts. of cis- and trans-derivs. Diethylamine and piperidine adducts displayed the property to substitute hydroxyl for fluorine in hexadecan-1-ol. Mol. properties of hexafluoropropene and perfluoro(Me vinyl ether) were calcd. by ab initio method at the MP2/6-311G(d,p) level of theory and their impact on relative reactivity was estd.

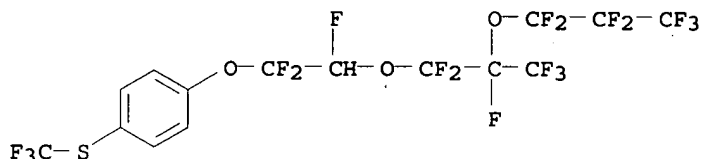
IT 499795-46-9P 499795-48-1P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(fluorination reactivity of tridecafluorotrifluoromethyldioxanone in nucleophilic reactions and properties of secondary amine adducts)

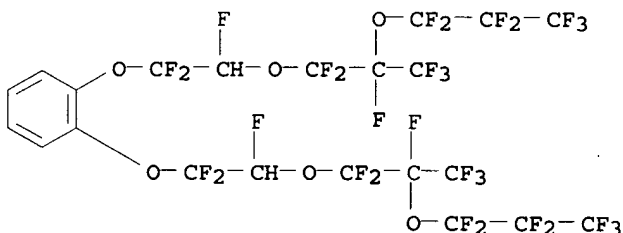
RN 499795-46-9 HCAPLUS

CN Benzene, 1-[1,1,2-trifluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]ethoxy]-4-[(trifluoromethyl)thio]- (9CI) (CA INDEX NAME)



RN 499795-48-1 HCAPLUS

CN Benzene, 1,2-bis[1,1,2-trifluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]ethoxy]- (9CI) (CA INDEX NAME)



CC 22-4 (Physical Organic Chemistry)

IT 408-38-8P, 1-Fluorohexadecane 254981-43-6P 254981-47-0P

254981-53-8P 254981-59-4P 499795-43-6P 499795-44-7P

499795-45-8P 499795-46-9P 499795-47-0P

499795-48-1P 499795-49-2P 499795-50-5P 499795-51-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(fluorination reactivity of tridecafluorotrifluoromethyldioxanone in nucleophilic reactions and properties of secondary amine adducts)

REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:734318 HCAPLUS

DOCUMENT NUMBER: 137:270136

TITLE: Organic electroluminescent element and display devices
 INVENTOR(S): Naito, Katsuyuki
 PATENT ASSIGNEE(S): Toshiba Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

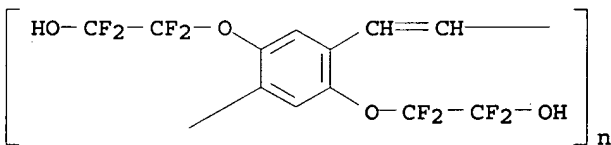
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002280177	A2	20020927	JP 2001-74540	20010315
PRIORITY APPLN. INFO.:				20010315

AB The devices comprise: a glass substrate; an anode; a hole transport layer; a phosphor layer; an electron transport layer; and a cathode, where the phosphor layer contains a light-emitting dye contg. a cyano group having an octal Log P > 6.5.

IT 462631-44-3
 RL: DEV (Device component use); USES (Uses)
 (org. electroluminescent element and display devices)

RN 462631-44-3 HCAPLUS

CN Poly[[2,5-bis(1,1,2,2-tetrafluoro-2-hydroxyethoxy)-1,4-phenylene]-1,2-ethenediyl] (9CI) (CA INDEX NAME)



IC ICM H05B033-14
 ICS C09K011-06; H05B033-12; H05B033-22
 CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 IT 147-14-8, Copper phthalocyanine 2085-33-8, Tris(8-quinolinolato)aluminum 7429-90-5, Aluminum, uses 11099-20-0 50926-11-9, ITO 65181-78-4, TPD 123847-85-8, α -NPD 462631-38-5 462631-42-1 462631-44-3 462631-46-5 462631-47-6 462631-48-7 463358-14-7, Poly(butyl-5,8-quinoxalinediyl)
 RL: DEV (Device component use); USES (Uses)
 (org. electroluminescent element and display devices)

L23 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

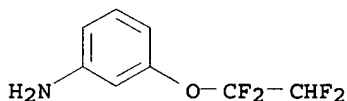
ACCESSION NUMBER: 2000:792832 HCAPLUS

DOCUMENT NUMBER: 134:127686

TITLE: Pyrido[2,3-d]pyrimidin-7-one Inhibitors of Cyclin-Dependent Kinases

AUTHOR(S): Barvian, Mark; Boschelli, Dianne; Cossrow, Jennifer; Dobrusin, Ellen; Fattaey, Ali; Fritsch, Alex; Fry, David; Harvey, Patricia;

Keller, Paul; Garrett, Michelle; La, Frances;
 Leopold, Wilbur; McNamara, Dennis; Quin, Marie;
 Trumpp-Kallmeyer, Susanne; Toogood, Peter; Wu,
 Zhipei; Zhang, Erli
 CORPORATE SOURCE: Departments of Chemistry and Cancer Research,
 Parke-Davis Pharmaceutical Research Division of
 Warner Lambert Company, Ann Arbor, MI, 48105,
 USA
 SOURCE: Journal of Medicinal Chemistry (2000), 43(24),
 4606-4616
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:127686
 AB The identification of 8-ethyl-2-phenylamino-8H-pyrido[2,3-
 d]pyrimidin-7-one as an inhibitor of Cdk4 led to the
 initiation of a program to evaluate related pyrido[2,3-d]pyrimidin-7-
 ones for inhibition of cyclin-dependent kinases (Cdks). Anal. of
 more than 60 analogs has identified some clear SAR trends that may
 be exploited in the design of more potent Cdk inhibitors. The most
 potent Cdk4 inhibitors reported in this study inhibit Cdk4 with IC50
 = 0.004 μ M ([ATP] = 25 μ M). X-ray crystallog. anal. of
 representative compds. bound to the related kinase, Cdk2, reveals
 that they occupy the ATP binding site. Modest selectivity between
 Cdks is exhibited by some compds., and Cdk4-selective inhibitors
 block pRb+ cells in the G1-phase of the cell division cycle.
 IT 831-75-4, Benzenamine, 3-(1,1,2,2-tetrafluoroethoxy)-
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and structure-activity relationships of
 pyridopyrimidinone as inhibitors of cyclin-dependent kinases)
 RN 831-75-4 HCAPLUS
 CN Benzenamine, 3-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)

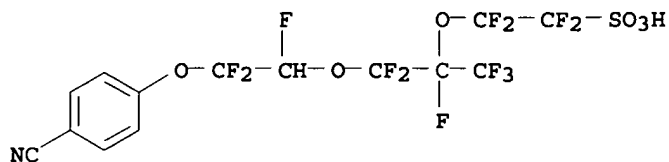


CC 7-3 (Enzymes)
 Section cross-reference(s): 1, 28
 IT 62-53-3, Aniline, reactions 75-04-7, Ethylamine, reactions
 99-98-9, n,n-Dimethyl-1,4-diaminobenzene 108-85-0, Cyclohexyl
 bromide 765-91-3, exo-Norbornyl chloride 831-75-4,
 Benzenamine, 3-(1,1,2,2-tetrafluoroethoxy)- 1099-45-2 2359-60-6,
 4-(Piperidino)aniline 5909-24-0 38519-63-0, Benzenamine,
 4-[2-(diethylamino)ethoxy]- 63160-13-4, 2-(Phenylsulfonyl)-3-
 phenyloxaziridine 211244-81-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and structure-activity relationships of
 pyridopyrimidinone as inhibitors of cyclin-dependent kinases)
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L23 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:819428 HCAPLUS
 DOCUMENT NUMBER: 132:50411
 TITLE: Aromatic polymers with pendant fluorinated ionic
 groups

INVENTOR(S): Doyle, Christopher Marc; Fiering, Andrew Edward;
Choi, Susan Kuharcik
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967304	A1	19991229	WO 1999-US14397	19990625
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2330792	AA	19991229	CA 1999-2330792	19990625
AU 9947198	A1	20000110	AU 1999-47198	19990625
AU 752929	B2	20021003		
EP 1095071	A1	20010502	EP 1999-930717	19990625
EP 1095071	B1	20040616		
R: DE, FR, GB, NL, FI				
JP 2003525957	T2	20030902	JP 2000-555953	19990625
PRIORITY APPLN. INFO.:			US 1998-90620P	P 19980625
			US 1998-93226P	P 19980717
			WO 1999-US14397	W 19990625
AB	The title invention discloses a class of unsatd. compds. including contg. a fluoroether-substituted arom. ring, polymers, including ionomers, formed therefrom, and processes for forming them. The compns. of the invention have particular suitability for use in electrochem. applications.			
IT	252975-64-7P RL: IMF (Industrial manufacture); PREP (Preparation) (arom. polymers with pendant fluorinated ionic groups)			
RN	252975-64-7 HCAPLUS			
CN	Ethanesulfonic acid, 2-[1-[[2-(4-cyanophenoxy)-1,2,2-trifluoroethoxy]difluoromethyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,2-tetrafluoro-, lithium salt (9CI) (CA INDEX NAME)			



● Li

IT 252975-63-6P 252975-69-2P 252975-70-5P
 252975-71-6P 252975-72-7P 252975-73-8P
 252975-74-9P 252975-75-0P 252975-76-1P
 252975-77-2P 252975-78-3P 252975-79-4P
 252975-80-7P 252975-81-8P 252975-82-9P
 252975-83-0P 252975-84-1P 252975-85-2P
 252975-86-3P 252975-87-4P 252975-88-5P
 252975-89-6P 252975-90-9P 252975-91-0P
 252975-92-1P 252975-95-4P 252988-98-0P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(arom. polymers with pendant fluorinated ionic groups)

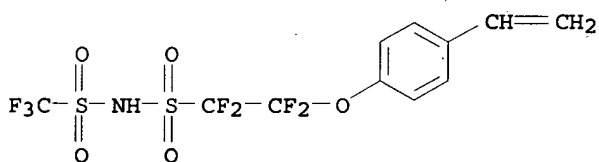
RN 252975-63-6 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, lithium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



● Li

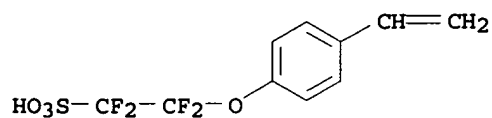
RN 252975-69-2 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-, lithium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

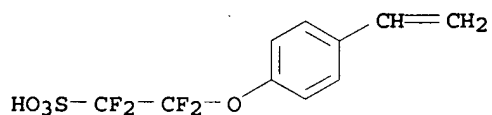


● Li

RN 252975-70-5 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

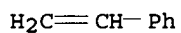
CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



● Li

CM 2

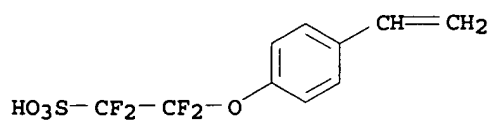
CRN 100-42-5
 CMF C8 H8



RN 252975-71-6 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt, polymer with ethenylbenzene and 2-propenenitrile (9CI)
 (CA INDEX NAME)

CM 1

CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



● Li

CM 2

CRN 107-13-1

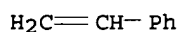
CMF C3 H3 N



CM 3

CRN 100-42-5

CMF C8 H8



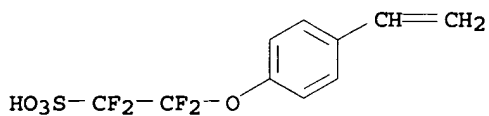
RN 252975-72-7 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

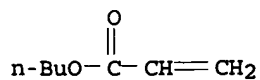


● Li

CM 2

CRN 141-32-2

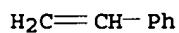
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



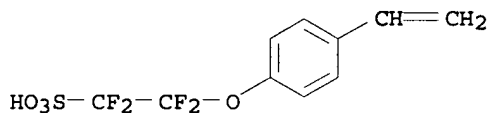
RN 252975-73-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with lithium
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

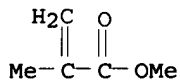


● Li

CM 2

CRN 80-62-6

CMF C5 H8 O2



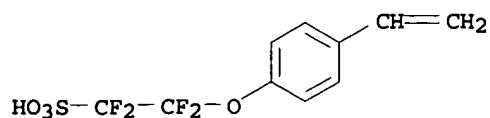
RN 252975-74-9 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li



● Li

CM 2

CRN 107-13-1

CMF C3 H3 N



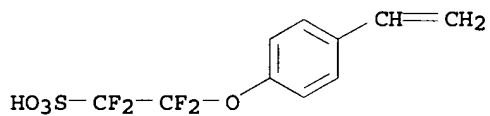
RN 252975-75-0 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with dihydro-3-methylene-2(3H)-furanone (9CI)
(CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

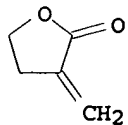


● Li

CM 2

CRN 547-65-9

CMF C5 H6 O2



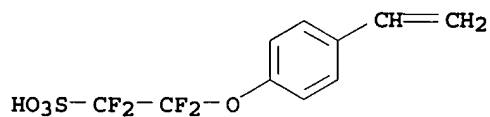
RN 252975-76-1 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with α -(2-methyl-1-oxo-2-propenyl)-
 ω -ethoxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

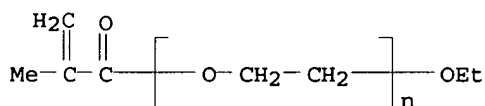


CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS



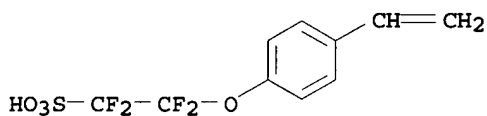
RN 252975-77-2 HCAPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with lithium
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
 INDEX NAME)

CM 1

CRN 252975-59-0

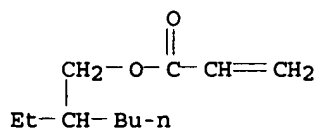
CMF C10 H8 F4 O4 S . Li



CM 2

CRN 103-11-7

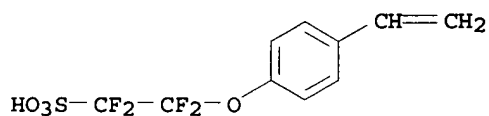
CMF C11 H20 O2



RN 252975-78-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, (2-oxo-1,3-dioxolan-4-yl)methyl ester,
 polymer with butyl 2-propenoate and lithium 2-(4-ethenylphenoxy)-
 1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

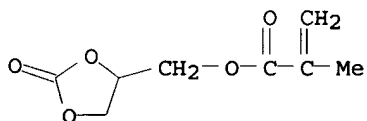
CRN 252975-59-0
 CMF C10 H8 F4 O4 S . Li



● Li

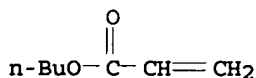
CM 2

CRN 13818-44-5
 CMF C8 H10 O5



CM 3

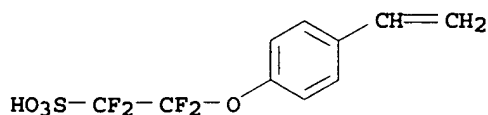
CRN 141-32-2
 CMF C7 H12 O2



RN 252975-79-4 HCAPLUS
 CN 2-Propenoic acid, methyl ester, polymer with lithium
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA
 INDEX NAME)

CM 1

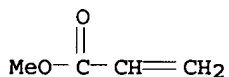
CRN 252975-59-0
CMF C10 H8 F4 O4 S . Li



● Li

CM 2

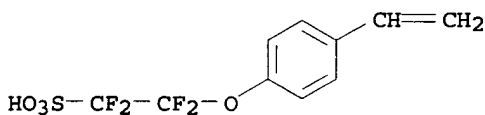
CRN 96-33-3
CMF C4 H6 O2



RN 252975-80-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl
di-2-propenoate and lithium 2-(4-ethenylphenoxy)-1,1,2,2-
tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0
CMF C10 H8 F4 O4 S . Li



● Li

CM 2

CRN 15625-89-5
CMF C15 H20 O6


$$\begin{array}{c} \text{H}_2\text{C} \quad \text{O} \\ || \quad || \\ \text{Me}-\text{C}-\text{C}-\text{OMe} \end{array}$$

CM 1

HO3S-CF2-CF2-O-C6H4-CH=CH2

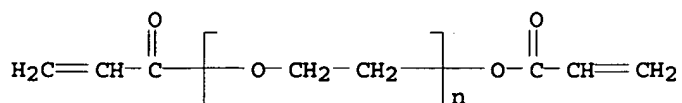
● Li

CM 2

$$\text{Me}-\overset{\text{H}_2\text{C}}{\underset{\parallel}{\text{C}}}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\left[\text{O}-\text{CH}_2-\text{CH}_2 \right]_n-\text{OEt}$$

CM 3

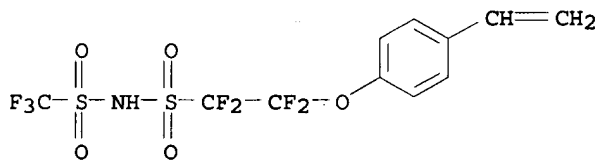
CRN 26570-48-9
 CMF (C2 H4 O)_n C6 H6 O3
 CCI PMS



RN 252975-82-9 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt (9CI) (CA
 INDEX NAME)

CM 1

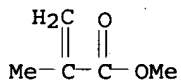
CRN 252975-62-5
 CMF C11 H8 F7 N O5 S2 . Li



● Li

CM 2

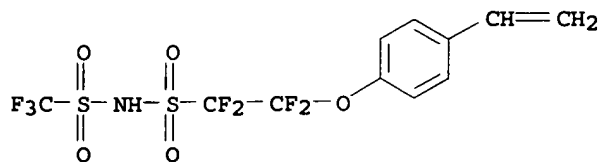
CRN 80-62-6
 CMF C5 H8 O2



RN 252975-83-0 HCAPLUS
 CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5
 CMF C11 H8 F7 N O5 S2 . Li

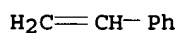


● Li

CM 2

CRN 100-42-5

CMF C8 H8



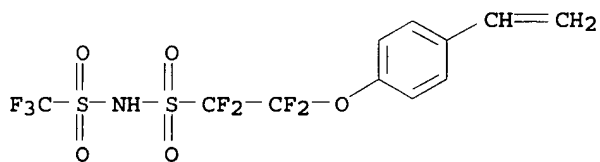
RN 252975-84-1 HCAPLUS

CN 2-Propenoic acid, methyl ester, polymer with 2-(4-ethenylphenoxy)-
1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]ethanesulfonamide
lithium salt (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

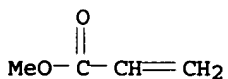


● Li

CM 2

CRN 96-33-3

CMF C4 H6 O2



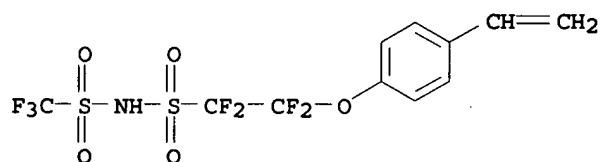
RN 252975-85-2 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(4-ethenylphenoxy)-
1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]ethanesulfonamide
lithium salt (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

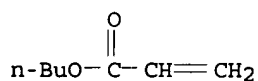


● Li

CM 2

CRN 141-32-2

CMF C7 H12 O2



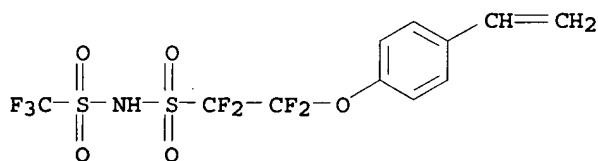
RN 252975-86-3 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 α-(2-methyl-1-oxo-2-propenyl)-ω-ethoxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



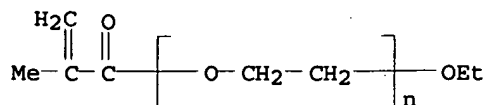
● Li

CM 2

CRN 35625-93-5

CMF (C2 H4 O)n C6 H10 O2

CCI PMS



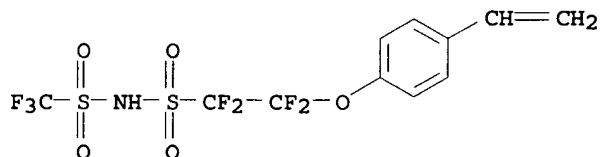
RN 252975-87-4 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -ethoxypoly(oxy-1,2-
 ethanediyl) and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-
 propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li



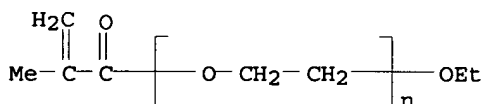
● Li

CM 2

CRN 35625-93-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

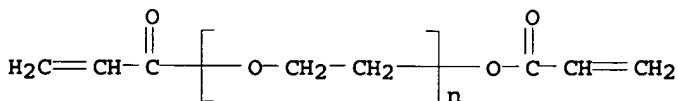


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

CCI PMS



RN 252975-88-5 HCAPLUS

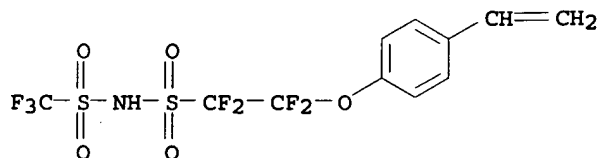
CN 2-Propenoic acid, 2-methyl-, (2-oxo-1,3-dioxolan-4-yl)methyl ester,

polymer with 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and methyl
2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

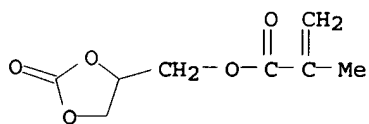


● Li

CM 2

CRN 13818-44-5

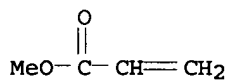
CMF C8 H10 O5



CM 3

CRN 96-33-3

CMF C4 H6 O2



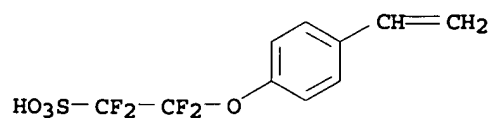
RN 252975-89-6 HCAPLUS

CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
lithium salt, polymer with (chloromethyl)oxirane, oxirane and
[(2-propenyloxy)methyl]oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

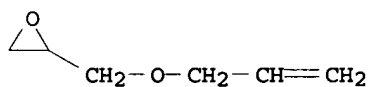


● Li

CM 2

CRN 106-92-3

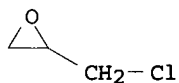
CMF C6 H10 O2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



CM 4

CRN 75-21-8

CMF C2 H4 O



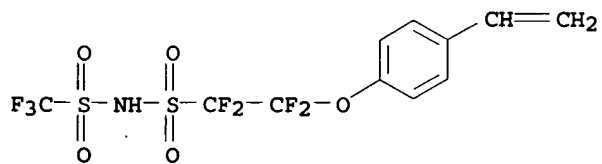
RN 252975-90-9 HCAPLUS

CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
[(trifluoromethyl)sulfonyl]-, lithium salt, polymer with
(chloromethyl)oxirane, oxirane and [(2-propenyloxy)methyl]oxirane
(9CI) (CA INDEX NAME)

CM 1

CRN 252975-62-5

CMF C11 H8 F7 N O5 S2 . Li

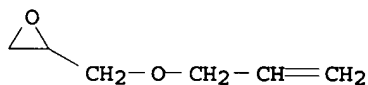


● Li

CM 2

CRN 106-92-3

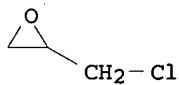
CMF C6 H10 O2



CM 3

CRN 106-89-8

CMF C3 H5 Cl O



CM 4

CRN 75-21-8

CMF C2 H4 O



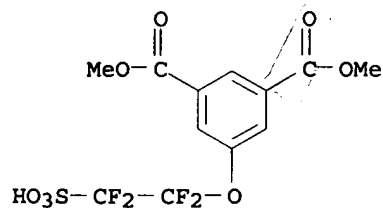
RN 252975-91-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-(1,1,2,2-tetrafluoro-2-sulfoethoxy)-
 , 1,3-dimethyl ester, lithium salt, polymer with bis(2-hydroxyethyl)
 1,4-benzenedicarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-68-1

CMF C12 H10 F4 O8 S . Li

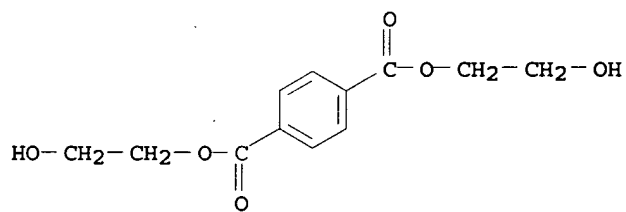


● Li

CM 2

CRN 959-26-2

CMF C12 H14 O6



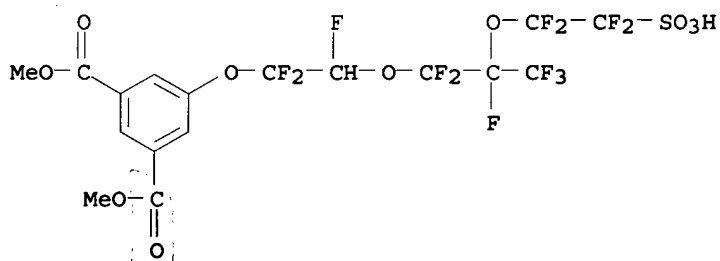
RN 252975-92-1 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[1,1,2-trifluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]ethoxy]-, 1,3-dimethyl ester, lithium salt, polymer with bis(2-hydroxyethyl) 1,4-benzenedicarboxylate (9CI) (CA INDEX NAME)

CM 1

CRN 252975-65-8

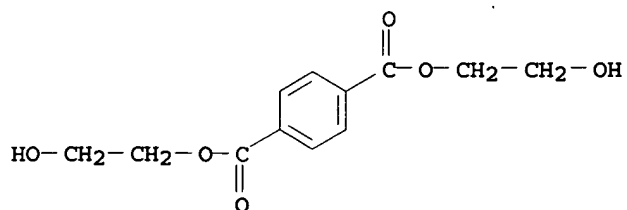
CMF C17 H11 F13 O10 S . Li



● Li

CM 2

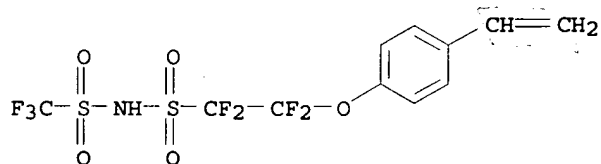
CRN 959-26-2
CMF C12 H14 O6



RN 252975-95-4 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]ethanesulfonamide lithium salt and lithium 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonate (9CI) (CA INDEX NAME)

CM 1

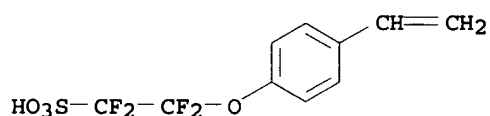
CRN 252975-62-5
CMF C11 H8 F7 N O5 S2 . Li



● Li

CM 2

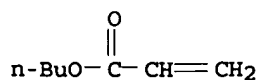
CRN 252975-59-0
CMF C10 H8 F4 O4 S . Li



● Li

CM 3

CRN 141-32-2
CMF C7 H12 O2



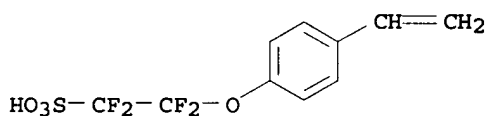
RN 252988-98-0 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1),
polymer with lithium 2-(4-ethenylphenoxy)-1,1,2,2-
tetrafluoroethanesulfonate and methyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)

CM 1

CRN 252975-59-0

CMF C10 H8 F4 O4 S . Li

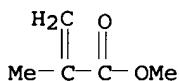


● Li

CM 2

CRN 80-62-6

CMF C5 H8 O2



CM 3

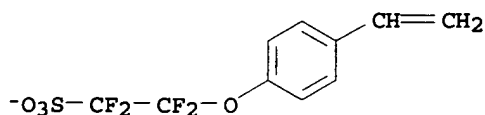
CRN 252988-95-7

CMF C12 H18 N . C10 H7 F4 O4 S

CM 4

CRN 252988-94-6

CMF C10 H7 F4 O4 S



CM 5

CRN 53867-17-7

CMF C12 H18 N

CCI IDS

D1-CH=CH₂Me₃N-CH₂-D1

IT 113939-45-0P 252975-56-7P 252975-57-8P
 252975-58-9P 252975-59-0P 252975-60-3P
 252975-61-4P 252975-62-5P 252975-65-8P
 252975-66-9P 252975-67-0P 252975-68-1P
 252988-95-7P 252988-97-9P

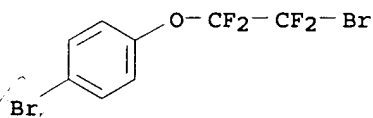
RL: IMF (Industrial manufacture); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)

(arom. polymers with pendant fluorinated ionic groups)

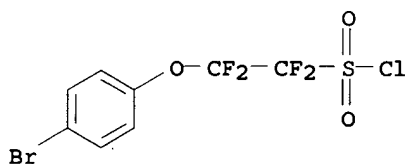
RN 113939-45-0 HCAPLUS

CN Benzene, 1-bromo-4-(2-bromo-1,1,2,2-tetrafluoroethoxy)- (9CI) (CA
 INDEX NAME)



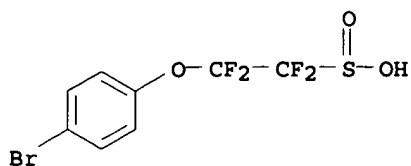
RN 252975-56-7 HCAPLUS

CN Ethanesulfonyl chloride, 2-(4-bromophenoxy)-1,1,2,2-tetrafluoro-
 (9CI) (CA INDEX NAME)



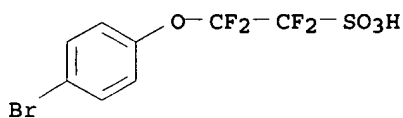
RN 252975-57-8 HCAPLUS

CN Ethanesulfinic acid, 2-(4-bromophenoxy)-1,1,2,2-tetrafluoro-, sodium
 salt (9CI) (CA INDEX NAME)



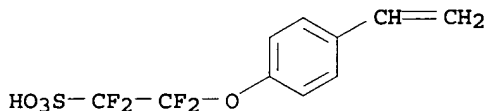
● Na

RN 252975-58-9 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-bromophenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt (9CI) (CA INDEX NAME)



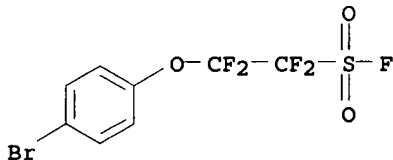
● Li

RN 252975-59-0 HCAPLUS
 CN Ethanesulfonic acid, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-,
 lithium salt (9CI) (CA INDEX NAME)

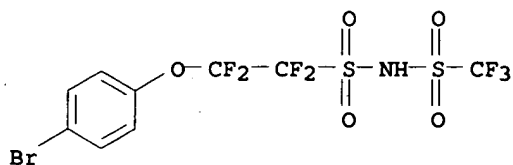


● Li

RN 252975-60-3 HCAPLUS
 CN Ethanesulfonyl fluoride, 2-(4-bromophenoxy)-1,1,2,2-tetrafluoro-,
 (9CI) (CA INDEX NAME)



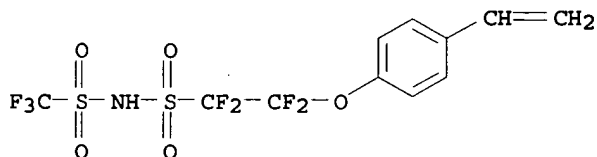
RN 252975-61-4 HCAPLUS
 CN Ethanesulfonamide, 2-(4-bromophenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]-, lithium salt (9CI) (CA INDEX NAME)



● Li

RN 252975-62-5 HCAPLUS

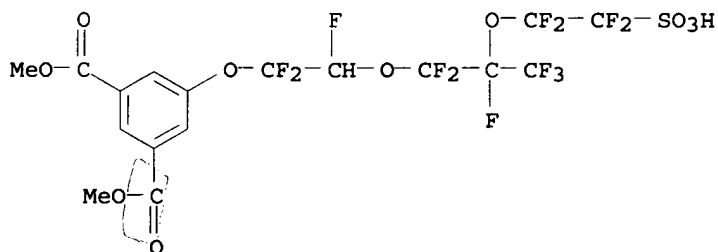
CN Ethanesulfonamide, 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-[(trifluoromethyl)sulfonyl]-, lithium salt (9CI) (CA INDEX NAME)



● Li

RN 252975-65-8 HCAPLUS

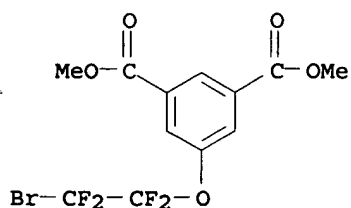
CN 1,3-Benzenedicarboxylic acid, 5-[1,1,2-trifluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2-tetrafluoro-2-sulfoethoxy)propoxy]ethoxy]-, 1,3-dimethyl ester, lithium salt (9CI) (CA INDEX NAME)



● Li

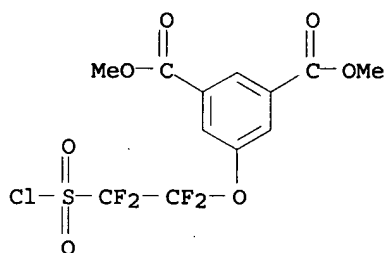
RN 252975-66-9 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-(2-bromo-1,1,2,2-tetrafluoroethoxy)-, dimethyl ester (9CI) (CA INDEX NAME)



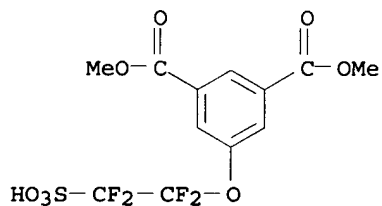
RN 252975-67-0 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[2-(chlorosulfonyl)-1,1,2,2-tetrafluoroethoxy]-, dimethyl ester (9CI) (CA INDEX NAME)



RN 252975-68-1 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-(1,1,2,2-tetrafluoro-2-sulfoethoxy)-, 1,3-dimethyl ester, lithium salt (9CI) (CA INDEX NAME)



● Li

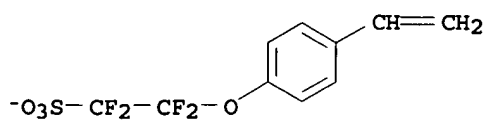
RN 252988-95-7 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoroethanesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 252988-94-6

CMF C10 H7 F4 O4 S



CM 2

CRN 53867-17-7

CMF C12 H18 N

CCI IDS

D1-CH=CH₂Me₃N-CH₂-D1

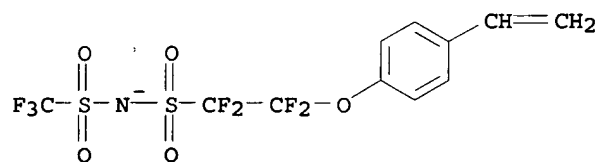
RN 252988-97-9 HCAPLUS

CN Benzenemethanaminium, ar-ethenyl-N,N,N-trimethyl-, salt with
 2-(4-ethenylphenoxy)-1,1,2,2-tetrafluoro-N-
 [(trifluoromethyl)sulfonyl]ethanesulfonamide (1:1) (9CI) (CA INDEX
 NAME)

CM 1

CRN 252988-96-8

CMF C11 H7 F7 N O5 S2



CM 2

CRN 53867-17-7

CMF C12 H18 N

CCI IDS



D1-CH=CH₂

Me₃N-CH₂-D1

IC ICM C08F012-30
ICS C07C317-18; C08G063-688; C07C311-24; C07C309-11; H01M006-18;
H01M010-40; H01B001-12

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 76

IT 252975-64-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(arom. polymers with pendant fluorinated ionic groups)

IT 252975-63-6P 252975-69-2P 252975-70-5P
252975-71-6P 252975-72-7P 252975-73-8P
252975-74-9P 252975-75-0P 252975-76-1P
252975-77-2P 252975-78-3P 252975-79-4P
252975-80-7P 252975-81-8P 252975-82-9P
252975-83-0P 252975-84-1P 252975-85-2P
252975-86-3P 252975-87-4P 252975-88-5P
252975-89-6P 252975-90-9P 252975-91-0P
252975-92-1P 252975-95-4P 252988-98-0P
RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)
(arom. polymers with pendant fluorinated ionic groups)

IT 113939-45-0P 252975-56-7P 252975-57-8P
252975-58-9P 252975-59-0P 252975-60-3P
252975-61-4P 252975-62-5P 252975-65-8P
252975-66-9P 252975-67-0P 252975-68-1P
252988-95-7P 252988-97-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(arom. polymers with pendant fluorinated ionic groups)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L23 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:642910 HCAPLUS

DOCUMENT NUMBER: 132:17695

TITLE: Rheological changes of suspensions induced by
electrohydrodynamic instability

AUTHOR(S): Otsubo, Yasufumi; Edamura, Kazuya; Fukube,
Hiroyuki; Deyama, Kazuhito

CORPORATE SOURCE: Department of Image Science, Faculty of
Engineering, Chiba University, Chiba, 263, Japan

SOURCE: International Journal of Modern Physics B
(1999), 13(14, 15 & 16), 1705-1712
CODEN: IJPBEV; ISSN: 0217-9792

PUBLISHER: World Scientific Publishing Co. Pte. Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A new type of ER suspension is invented with a fluorinated org.

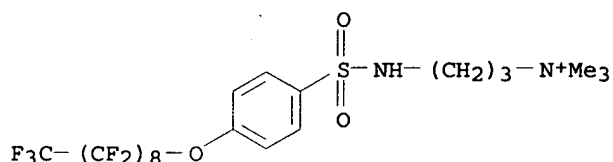
compd. The suspensions show a viscosity increase without yield stress on the application of elec. fields. The results cannot be explained by the chain formation mechanism. After the ER expts., the plate surface of rheometer is covered with stripes of aggregated particles. The periodic structure may be formed in the electrified suspensions. When a dielec. liq. is subjected to high elec. fields, the secondary motion of liq. can be induced. The electrohydrodynamic convection is responsible for the periodic distribution of particles. The ER effect of the suspensions may be generated by a combined effect of electrohydrodynamic convection and external shear.

IT 71481-46-4

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(rheol. changes of suspensions induced by electrohydrodynamic instability)

RN 71481-46-4 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[[[4-[(nonadecafluorononyl)oxy]phenyl]sulfonyl]amino]-, iodide (9CI) (CA INDEX NAME)



● I⁻

CC 76-4 (Electric Phenomena)
Section cross-reference(s): 38

IT 71481-46-4

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(rheol. changes of suspensions induced by electrohydrodynamic instability)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:450405 HCAPLUS

DOCUMENT NUMBER: 131:137071

TITLE: Synthesis and mesomorphic properties of novel phenylbenzoate liquid crystals with a 4-2H-perfluoropropyl-1-butanol tail

AUTHOR(S): Liu, Hong; Nohira, Hiroyuki

CORPORATE SOURCE: Department Applied Chemistry, Faculty Engineering, Saitama Univ., Urawa City, 338, Japan

SOURCE: Ferroelectrics (1998), 207(3-4), 541-553

CODEN: FEROA8; ISSN: 0015-0193

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

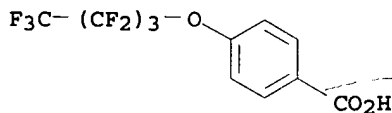
AB Two series of novel liq. crystals, 4'-(2H-perfluoropropylbutyloxy)phenyl 4-alkyloxybenzoates and 4'-(2H-perfluoropropylbutyloxy)phenyl 4-(n-perfluoroalkylalkyloxy)benzoates were synthesized and their liq. cryst. properties investigated. The compds. with a non-fluorinated achiral tail and a fluorinated achiral tail showed no smectic C phase, however, a more ordered B phase appeared with the increase of the achiral chain length. When the achiral terminal tail was fluorinated, a monotropic smectic C phase appeared and the stability of the smectic C phase increased as the fluorination extent of the achiral tail increased.

IT 75895-43-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and mesomorphic properties of phenylbenzoate liq. crystals with a 4-2H-perfluoropropyl-1-butoxy tail)

RN 75895-43-1 HCAPLUS

CN Benzoic acid, 4-(nonafluorobutoxy)- (9CI) (CA INDEX NAME)



CC 75-11 (Crystallography and Liquid Crystals)

Section cross-reference(s): 76

IT 103-16-2, p-(Benzyloxy)phenol 431-90-3 627-27-0, 3-Buten-1-ol
2493-84-7, 4-Octyloxybenzoic acid 75895-43-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and mesomorphic properties of phenylbenzoate liq. crystals with a 4-2H-perfluoropropyl-1-butoxy tail)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L23 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:464360 HCAPLUS

DOCUMENT NUMBER: 129:122975

TITLE: Salts of perfluorinated sulfonamides or
sulfinamides and their use as ionic conductors
and as catalysts

INVENTOR(S): Armand, Michel; Choquette, Yves; Gauthier,
Michel; Michot, Christophe

PATENT ASSIGNEE(S): Centre National de la Recherche Scientifique
(CNRS), Fr.; Hydro-Quebec

SOURCE: Eur. Pat. Appl., 65 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 850920	A2	19980701	EP 1997-403187	199712 30
EP 850920	A3	19980708		

EP 850920	B1	20020911		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2194127	AA	19980630	CA 1996-2194127	
				199612 30
CA 2199231	AA	19980905	CA 1997-2199231	
				199703 05
CA 2244979	AA	19980709	CA 1997-2244979	
				199712 30
CA 2248242	AA	19980709	CA 1997-2248242	
				199712 30
CA 2248244	AA	19980709	CA 1997-2248244	
				199712 30
CA 2248246	AA	19980709	CA 1997-2248246	
				199712 30
CA 2248303	AA	19980709	CA 1997-2248303	
				199712 30
CA 2248304	AA	19980709	CA 1997-2248304	
				199712 30
WO 9829358	A2	19980709	WO 1997-CA1008	
				199712 30
WO 9829358	A3	19981008		
W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
WO 9829399	A1	19980709	WO 1997-CA1009	
				199712 30
WO 9829389	A1	19980709	WO 1997-CA1010	
				199712 30
WO 9829396	A1	19980709	WO 1997-CA1011	
				199712 30
WO 9829877	A1	19980709	WO 1997-CA1012	
				199712 30
WO 9829388	A1	19980709	WO 1997-CA1013	
				199712 30
EP 889863	A2	19990113	EP 1997-951051	
				199712 30
EP 889863	B1	20030507		
R: DE, FR, GB, IT				
EP 890176	A1	19990113	EP 1997-951052	

EP 890176	B1	20010620		199712 30
R: DE, FR, GB, IT				
JP 2000508114	T2	20000627	JP 1998-529517	199712 30
JP 2000508346	T2	20000704	JP 1998-529516	199712 30
JP 2000508676	T2	20000711	JP 1998-529514	199712 30
JP 2000508677	T2	20000711	JP 1998-529515	199712 30
JP 2000508678	T2	20000711	JP 1998-529518	199712 30
JP 2002514245	T2	20020514	JP 1998-529513	199712 30
US 6120696	A	20000919	US 1998-125792	199712 30
US 6171522	B1	20010109	US 1998-101811	199808 28
US 6333425	B1	20011225	US 1998-101810	199811 19
US 6228942	B1	20010508	US 1998-125798	199811 19
US 6395367	B1	20020528	US 1998-125799	199812 02
US 6319428	B1	20011120	US 1998-125797	199812 02
US 6365068	B1	20020402	US 2000-609362	199812 03
US 6576159	B1	20030610	US 2000-638793	200006 30
US 2001024749	A1	20010927	US 2001-826941	200008 09
US 6506517	B2	20030114		200104 06
US 2002009650	A1	20020124	US 2001-858439	
US 2002102380	A1	20020801	US 2002-107742	200105 16
US 6835495	B2	20041228		200203 27
US 2003052310	A1	20030320	US 2002-253035	
US 2003066988	A1	20030410	US 2002-253970	200209 24
				200209

US 2005074668	A1	20050407	US 2004-789453	24
				200402
				27
US 2005123831	A1	20050609	US 2004-926283	200408
				25
PRIORITY APPLN. INFO.:			CA 1996-2194127	A
				199612
				30
			CA 1997-2199231	A
				199703
				05
			WO 1997-CA1008	W
				199712
				30
			WO 1997-CA1009	W
				199712
				30
			WO 1997-CA1010	W
				199712
				30
			WO 1997-CA1011	W
				199712
				30
			WO 1997-CA1012	W
				199712
				30
			WO 1997-CA1013	W
				199712
				30
			US 1998-101810	A3
				199811
				19
			US 1998-101811	A3
				199811
				19
			US 1998-125798	A3
				199812
				02
			US 1998-125799	A3
				199812
				02
			US 1998-125797	A1
				199812
				03
			US 2000-638793	A1
				200008
				09

US 2001-858439 A1
200105
16

US 2002-107742 A1
200203
27

OTHER SOURCE(S): MARPAT 129:122975

AB The salts comprise a cation and R_1SO_xN-Z in amts. to balance the pos. and neg. charges, where R_1 is halo, perhaloalkyl (optionally interrupted by O, S, or NH) or -alkaryl, R_2CF_2 , $R_2CF_2CF_2$, $R_2CF_2CF_2(CF_3)$, or CF_3CFR_2 ; R_2 is an org. radical which is not perhalogenated; Z is an electron-withdrawing group, which may be the residue of a polymer or may be a polyvalent group attached to other $N-SO_xR_1$ moieties; and $x = 1$ or 2 . Thus, a mixt. of 40 mmol acrylonitrile and 60 mmol 4- $CH_2:CHC_6H_4SO_2N-SO_2CF_3$ Li^+ was copolymd. in 82% yield by use of 1,1'-azobis(cyclohexanecarbonitrile) in THF, and the copolymer was used at 20% concn. as a binder in both the carbon anode and the carbon- $LiNiO_2$ cathode of a battery contg. a gelled electrolyte.

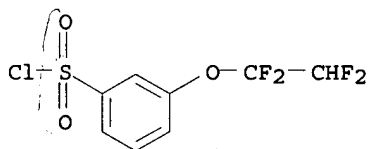
IT 210227-12-6, 3-(1,1,2,2-Tetrafluoroethoxy)benzenesulfonyl chloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(salts of perfluorinated sulfonamides or sulfinamides for use as ionic conductors and as catalysts)

RN 210227-12-6 HCAPLUS

CN Benzenesulfonyl chloride, 3-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



IC ICM C07C311-48

ICS C07C311-09; C07D307-64; C07D303-34; C07D407-04; C07D207-452; C07D213-76; C07D285-135; C07D251-70; C07D219-10; C07D311-82

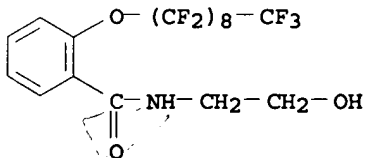
CC 35-3 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 52, 67, 76

IT 51-79-6, Ethyl carbamate 62-53-3, Benzenamine, reactions
74-89-5, Methylamine, reactions 78-08-0, Vinyltriethoxysilane
92-82-0, Phenazine 95-54-5, o-Phenylenediamine, reactions
96-24-2, 3-Chloro-1,2-propanediol 97-93-8, Triethylaluminum, reactions
98-16-8, 3-(Trifluoromethyl)aniline 98-61-3, 4-Iodobenzenesulfonyl chloride 102-54-5, Ferrocene 111-92-2, Dibutylamine 142-84-7, Dipropylamine 143-15-7, Dodecyl bromide 354-64-3, Pentafluoroethyl iodide 358-23-6, Trifluoromethanesulfonic anhydride 375-72-4, Perfluorobutane-1-sulfonyl fluoride 392-95-0, 2-Chloro-3,5-dinitrobenzotrifluoride 421-83-0, Trifluoromethanesulfonyl chloride 541-59-3, Maleimide 581-28-2, 2-Aminoacridine 605-65-2, 5-(Dimethylamino)-1-naphthalenesulfonyl chloride 700-16-3, Pentafluoropyridine 764-48-7, Ethylene glycol monovinyl ether 814-68-6, Acryloyl chloride 917-54-4, Methyllithium 920-66-1, 1,1,1,3,3,3-Hexafluoro-2-propanol 1070-89-9, Sodium bis(trimethylsilyl)amide 1111-78-0, Ammonium carbamate 1120-71-4, 1,3-Propane sultone

RL: RCT (Reactant); RACT (Reactant or reagent)
(salts of perfluorinated sulfonamides or sulfinamides for use as
ionic conductors and as catalysts)

CN Benzamide, N-(2-hydroxyethyl)-2-[(nonadecafluorononyl)oxy]- (9CI)
 (CA INDEX NAME)



IT	307-70-0	376-18-1	1997-55-3	2264-25-7	142599-23-3
----	----------	----------	-----------	-----------	-------------

142599-24-4 142599-25-5 142599-26-6

RL: USES (Uses)

(photog. and structural properties of silver bromiodide
black-and-white photog. layers prepd. in presence of)

L23 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:245163 HCAPLUS

DOCUMENT NUMBER: 116:245163

TITLE: Silver halide photographic material containing electrically conductive polymer

INVENTOR(S): Nagasaki, Satoru

PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03219236	A2	19910926	JP 1990-15369	19900125
PRIORITY APPLN. INFO.:				JP 1990-15369
				19900125

AB In the title material having on ≥ 1 side of a support ≥ 1 photosensitive Ag halide photog. emulsion layer and nonphotosensitive hydrophilic colloidal layer, the emulsion layer and/or hydrophilic colloidal layer contains ≥ 1 kind of water-sol. elec. conductive polymers and ≥ 1 kind of F-contg. surfactants.

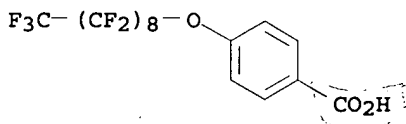
IT 75019-57-7 91998-13-9 110432-42-3

RL: USES (Uses)

(antistatic silver halide photog. materials contg.)

RN 75019-57-7 HCAPLUS

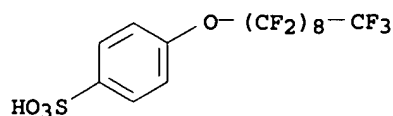
CN Benzoic acid, 4-[(nonadecafluorononyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



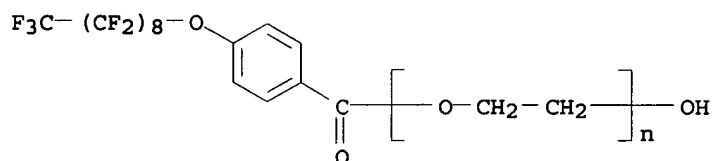
● Na

RN 91998-13-9 HCAPLUS

CN Benzenesulfonic acid, 4-[(nonadecafluorononyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



RN 110432-42-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[4-[(nonadecafluorononyl)oxy]benzo
 yl]- ω -hydroxy- (9CI) (CA INDEX NAME)



IC ICM G03C001-38
 ICS G03C001-04; G03C001-85
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and
 Other Reprographic Processes)
 Section cross-reference(s): 76
 IT 335-95-5, Sodium perfluorooctanoate 39388-02-8 57765-32-9
 60131-27-3 75019-57-7 91998-13-9 99124-61-5
 110432-41-2 110432-42-3 110432-43-4 110538-67-5
 110560-25-3 124206-96-8 133804-78-1 134119-91-8 134556-94-8
 137188-60-4 137188-63-7 137188-64-8 137223-16-6 141392-47-4
 141392-78-1 141392-79-2 141392-80-5
 RL: USES (Uses)
 (antistatic silver halide photog. materials contg.)

L23 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:468069 HCAPLUS

DOCUMENT NUMBER: 111:68069

TITLE: Electrooptical liquid-crystal display element
 containing dielectric component with fluoro
 compound for short switching time

INVENTOR(S): Poetsch, Eike; Kurmeier, Hans Adolf;
 Eidenschink, Rudolf; Weber, Georg; Waechtler,
 Andreas

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Fed. Rep. Ger.

SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8808441	A1	19881103	WO 1988-EP335	198804 21

W: JP, US

RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

DE 3714043 A1 19881117 DE 1987-3714043

198704
28

EP 313604 A1 19890503 EP 1988-903807

198804
21

EP 313604 B1 19920325

R: DE

JP 01503145 T2 19891026 JP 1988-503664

198804
21

US 5196140 A 19930323 US 1988-294630

198812
23

US 5348677 A 19940920 US 1992-963369

199210
20

PRIORITY APPLN. INFO.:

DE 1987-3714043

A

198704
28

WO 1988-EP335

W

198804
21

US 1988-294630

A3

198812
23

AB An electrooptical liq. crystals display device is described comprising a dielec. with ≥ 2 components, where the dielec. contains ≥ 1 fluoro compd. R1(A1Z1)mA2R2 [1 of R1 and R2 is H, F, Cl, Br, CN, NCS, C1-15 alkyl whose 1 or 2 CH2 group connected by -O-, -CO-, -O2C-, -CO2-, -CH halogen-, -CHCN-, -CMecN-, -C.tplbond.C-, and -CH:CH-, and 2 heteroatoms are not connected with each other; the other one of R1 and R2 is a C1-15 perfluoroalkyl in which ≥ 1 CF2 groups are interconnected through a linking group but 2 heteroatoms are not directly connected with each other; A1, A2 = 1,4-phenylene in which 1 or 2 CH groups may be replaced by N, 1,4-cyclohexylene in which 1 or 2 CH2 groups (not adjacent) may be replaced by -O- or -S-, piperidine-1,4-diyl, 1,4-bicyclo[2.2.2]octylene, decahydronaphthalene-2,6-diyl, 1,2,3,4-tetrahydronaphthalene-2,6-diyl, A2 may also be a simple compd.; m = 0-3; Z1 = CO2, O2C, OCH2, CH2O, C2H4, substituted ethylene, simple compd.; for m = 2 or 3 the groups A1 and Z1 can be similar; for m = 0 the sum of C atoms in R1 and R2 is ≥ 8]. The display devices have shorter switching time.

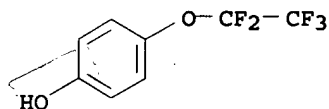
IT 658-46-8 35295-36-4 68834-05-9

RL: RCT (Reactant); RACT (Reactant or reagent)

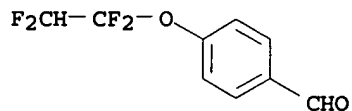
(reaction of, liq.-crystal display contg. fluoro compd. from)

RN 658-46-8 HCAPLUS

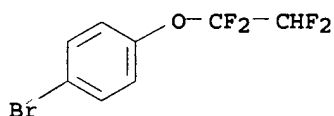
CN Phenol, 4-(pentafluoroethoxy)- (9CI) (CA INDEX NAME)



RN 35295-36-4 HCAPLUS
 CN Benzaldehyde, 4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



RN 68834-05-9 HCAPLUS
 CN Benzene, 1-bromo-4-(1,1,2,2-tetrafluoroethoxy)- (9CI) (CA INDEX NAME)



IC ICM C09K019-30
 ICS C09K019-34
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 75, 76
 IT 67-64-1, 2-Propanone, reactions 116-14-3, reactions
 658-46-8 754-34-7, Heptafluoropropyl iodide 937-14-4,
 m-Chloroperbenzoic acid 3108-24-5, Ethylpentadecafluorooctanoate
 7383-71-3, 2,2,3,3-Tetrafluoropropylacrylate 25291-17-2
 30377-52-7, Ethyl perfluorononanoate 35295-36-4
 38289-29-1, trans-4-Pentylcyclohexanecarboxylic acid 58415-62-6
 65355-33-1 67589-88-2 67589-89-3 68834-05-9
 81936-33-6 82832-73-3, 4-(trans-4-Propylcyclohexyl)cyclohexanone
 88639-45-6 89409-95-0 95881-25-7 116020-44-1 121040-02-6
 121040-03-7 121040-04-8 121040-05-9 121040-06-0 121040-07-1
 121040-08-2 121040-09-3 121040-19-5 121061-95-8 121071-19-0
 121719-35-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, liq.-crystal display contg. fluoro compd. from)

=>